

CLAIMS

1. A suspension component connection assembly,
comprising:

a suspension component having a bushing receiving bore with first and second opposing axial ends, said bushing receiving bore including a groove portion positioned intermediate said first and second axial ends of said suspension component; and

a sleeveless bushing having an elastomeric portion with first and second opposing axial ends, said elastomeric portion having a ribbed portion positioned intermediate said first and second axial ends of said elastomeric portion, said ribbed portion being adapted to fit within said groove portion of said suspension component.

2. The suspension component connection assembly of claim 1 wherein said suspension component comprises a leaf spring and said bushing receiving bore comprises a leaf spring eye.
3. The suspension component connection assembly of claim 1 wherein said suspension component comprises a shackle assembly.
4. The suspension component connection assembly of claim 1 wherein said sleeveless bushing further comprises a metal sleeve surrounded by said elastomeric portion.
5. The suspension component connection assembly of claim 1 wherein said sleeveless bushing further comprises a pin surrounded by said elastomeric portion.

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6. The suspension component connection assembly of claim 1 wherein said bushing receiving bore has an inner diameter with a circumferential length and said groove portion of said suspension component extends substantially along the circumferential length of said inner diameter in its entirety.
7. The suspension component connection assembly of claim 1 wherein said bushing receiving bore has an inner diameter with a circumferential length and said groove portion of said suspension component extends along only a portion of said circumferential length of said inner diameter.
8. A suspension component connection assembly, comprising:
 - a suspension component having a bushing receiving bore with first and second opposing axial ends, said bushing receiving bore including a ribbed portion positioned intermediate said first and second axial ends of said suspension component; and
 - a sleeveless bushing having an elastomeric portion with first and second opposing axial ends, said elastomeric portion having a grooved portion positioned intermediate said first and second axial ends of said elastomeric portion, said ribbed portion being adapted to fit within said groove portion of said bushing.
9. The suspension component connection assembly of claim 8 wherein said suspension component comprises a leaf spring and said bushing receiving bore comprises a leaf spring eye.

10. The suspension component connection assembly of claim 8 wherein said suspension component comprises a shackle assembly.
11. The suspension component connection assembly of claim 8 wherein said sleeveless bushing further comprises a metal sleeve surrounded by said elastomeric portion.
12. The suspension component connection assembly of claim 8 wherein said sleeveless bushing further comprises a pin surrounded by said elastomeric portion.
13. The suspension component connection assembly of claim 8 wherein said bushing receiving bore has an inner diameter with a circumferential length and said ribbed portion of said suspension component extends substantially along the circumferential length of said inner diameter in its entirety.
14. A suspension component connection assembly, comprising:
 - a suspension component having a bushing receiving bore with first and second opposing axial ends, said bushing receiving bore including a slot portion positioned intermediate said first and second axial ends of said suspension component; and
 - a sleeveless bushing having an elastomeric portion with first and second opposing axial ends, said elastomeric portion having a protrusion positioned intermediate said first and second axial ends of said elastomeric portion, said protrusion being adapted to fit within said slot of said suspension component.

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15. The suspension component connection assembly of claim 14 wherein said suspension component comprises a leaf spring and said bushing receiving bore comprises a leaf spring eye.
16. The suspension component connection assembly of claim 14 wherein said sleeveless bushing further comprises a metal sleeve surrounded by said elastomeric portion.
17. The suspension component connection assembly of claim 14 wherein said sleeveless bushing further comprises a pin surrounded by said elastomeric portion.
18. A suspension component connection assembly, comprising:
 - a suspension component having a bushing receiving bore with first and second opposing axial ends, said bushing receiving bore including a hole positioned intermediate said first and second axial ends of said suspension component; and
 - a sleeveless bushing having an elastomeric portion with first and second opposing axial ends, said elastomeric portion having a protrusion positioned intermediate said first and second axial ends of said elastomeric portion, said protrusion being adapted to fit within said hole of said suspension component.
19. The suspension component connection assembly of claim 18 wherein said suspension component comprises a leaf spring and said bushing receiving bore comprises a leaf spring eye.

20. The suspension component connection assembly of claim 18 wherein said sleeveless bushing further comprises a metal sleeve surrounded by said elastomeric portion.
21. The suspension component connection assembly of claim 18 wherein said sleeveless bushing further comprises a pin surrounded by said elastomeric portion.

Approved for Release